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UNITED STATES NAVAL OBSERVATORY
CIRCULAR NO. 69

U. S. Naval Observatory, Washington 25, D. C.

September 12, 1956

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

APRIL, 1956

By Winifred Sawtell Cameron

These results are based upon measurements made at the Naval Observatory on plates secured either there or at the Mt. Wilson Observatory. The symbols used for the entries in the successive columns are as follows:

U.T., the epoch of observation in Universal Time.

No., the identifying number of the group assigned by Mt. Wilson.

Δl , the heliographic difference in longitude from the central meridian, measured positive to the west.

φ , the heliographic latitude, measured positive to the north.

ρ , the heliocentric angular distance from the line joining the centers of the Earth and Sun.

A , the true area of the umbra plus penumbra, expressed in millionths of the visible hemisphere.

s , the number of spots.

An asterisk means that no Mt. Wilson number was assigned. Plates secured at the Naval Observatory are indicated by N, and those at Mt. Wilson by M. The plate quality, which follows, is indicated by:

1, Poor; 2, Fair; 3, Good; 4, Very Good; 5, Excellent.

The following five quantities are listed successively at the end of each day, and give for that day:

1. The total number of groups, g .
2. The longitude of the central meridian, L_0 .
3. The latitude of the center of the disc, B_0 .
4. The total value of A .
5. The total value of s .

The mean daily area and the mean relative sunspot number, $r=10g+s$ are given at the end of the month.

These results are a continuation of those published in the *Monthly Weather Review* from February 1, 1927 to December 31, 1947.

APRIL

U.T.	No.	Δl	φ	ρ	A	s	U.T.	No.	Δl	φ	ρ	A	s
		$^{\circ}$	$^{\circ}$	$^{\circ}$					$^{\circ}$	$^{\circ}$	$^{\circ}$		
1.606	11546	-55	+21	62	12	1		11551	-36	+33	53	16	2
M-2	11546	-52	+20	59	24	1		11551	-34	+32	51	36	4
	11542	-39	+19	47	24	1		11551	-32	+31	49	16	2
	11538	+3	-24	18	97	2		11551	-31	+31	47	48	1
	11536	+29	-17	32	61	1		11549	-34	-16	36	6	1
	11535	+35	+26	48	32	2		11549	-32	-16	34	6	1
	11535	+36	+25	49	36	2							
	11535	+37	+26	50	16	2		(4) (267) (-6)				378	21
	11535	+39	+26	51	61	3							
	11535	+41	+25	52	61	2	6.591	11555	-88	+17	89	145	1
	11535	+42	+26	54	32	1	M-5	11553	-65	+27	72	97	1
	11543	+49	+21	56	24	1		11553	-64	+26	71	48	2
	11543	+53	+22	60	24	1		11553	-64	+24	71	12	4
	11532	+55	-27	58	32	1		11553	-60	+24	68	32	2
	11532	+55	-26	58	16	1		11553	-56	+23	64	16	2
								11552	-47	+20	55	6	1
	(7) (319) (-6)				552	22		11552	-43	+18	50	6	1
								11551	-27	+34	49	6	1
2.569	11546	-40	+19	47	16	1		11551	-26	+36	50	218	6
N-2	11538	+16	-23	23	97	1		11551	-24	+33	46	12	7
	11536	+43	-16	44	48	1		11551	-24	+35	48	16	3
	11535	+47	+27	59	242	7		11551	-22	+33	45	97	10
	11535	+52	+27	62	194	3		11551	-18	+34	45	6	1
	11535	+53	+26	63	48	1		11551	-17	+32	42	145	6
								11551	-16	+31	40	32	5
	(4) (306) (-6)				645	14		11554	+62	-14	63	6	1
								11554	+63	-15	64	6	1
3.764	11549	-64	-15	65	6	1							
N-3	11549	-63	-16	64	16	1		(5) (253) (-6)				906	55
	11549	-59	-14	60	12	1							
	11549	-57	-15	58	6	1	7.590	11556	-87	-21	87	242	1
	11548	-56	+30	66	16	1	M-5	11555	-71	+17	75	61	3
	11547	-39	+22	48	16	1		11553	-52	+26	62	48	4
	11542	-14	+19	29	16	1		11553	-52	+27	63	48	3
	11542	-10	+19	27	12	1		11553	-51	+24	60	24	3
	11538	+32	-23	35	32	1		11553	-51	+25	61	16	5
	11536	+58	-16	59	24	1		11553	-49	+24	59	6	2
	11530	+64	+31	74	36	1		11553	-47	+23	55	24	4
	11535	+64	+26	71	32	1		11553	-46	+23	55	145	15
	11535	+69	+26	76	61	1		11553	-45	+21	54	12	5
								11552	-29	+18	38	6	1
	(8) (291) (-6)				285	13		11551	-16	+35	44	6	2
								11551	-14	+35	44	6	1
4.647	11551	-49	+34	64	61	1		11551	-14	+36	45	267	1
N-2	11551	-46	+32	60	24	1		11551	-13	+34	43	24	5
	11551	-45	+33	59	24	1		11551	-12	+34	42	6	2
	11549	-45	-15	46	16	1		11551	-11	+33	41	6	1
	11538	+43	-22	45	16	1		11551	-9	+32	40	12	3
								11551	-7	+33	41	61	1
	(3) (279) (-6)				141	5		11551	-6	+34	41	6	4
								11551	-5	+34	42	6	2
5.565	11553	-80	+26	86	97	1		11551	-4	+32	38	97	1
N-4	11553	-69	+21	75	16	1		11551	-3	+31	36	32	4
	11552	-56	+17	61	12	1		11551	-3	+32	38	24	6
	11551	-40	+34	56	97	3		11551	-2	+33	40	12	3
	11551	-38	+34	55	12	1							
	11551	-37	+32	53	16	3		(5) (240) (-6)				1197	.82

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U. T.	No.	Δl	φ	ρ	A	s	U. T.	No.	Δl	φ	ρ	A	s	
8.608 N-2	11558	-74	+20	76	194	1		11553	-6	+22	28	73	1	
	11556	-73	-22	73	339	1		11553	-4	+23	29	339	1	
	11555	-56	+16	61	36	1		11553	-3	+20	26	24	1	
	11553	-40	+25	52	61	1		11551	+20	+36	47	291	1	
	11553	-39	+26	51	85	2		11551	+30	+33	49	32	1	
	11553	-39	+24	51	145	1		11551	+33	+32	50	73	1	
	11553	-38	+23	49	145	2		11564	+22	-19	25	61	2	
	11553	-35	+22	45	48	2		11564	+24	-19	26	32	1	
	11553	-33	+22	44	145	1		(10) (201) (-6)				3871	28	
	11553	-32	+22	44	73	2		12.579	11570	-80	-24	80	97	1
	11553	-31	+22	42	97	1	N-2	11569	-72	-36	73	194	1	
	11551	-4	+36	43	364	4		11567	-67	+17	71	73	1	
	11551	-2	+35	42	24	1		11567	-66	+20	72	194	2	
	11551	+1	+33	39	32	1		11567	-65	+18	70	48	1	
	11551	+2	+33	39	24	1		11562	-54	-30	57	291	2	
	11551	+3	+33	39	32	1		11562	-54	-34	58	121	2	
	11551	+4	+34	41	73	2		11562	-50	-33	55	267	2	
	11551	+7	+32	39	97	3		11563	-45	+14	50	170	4	
	11551	+8	+31	37	16	2		11563	-42	+13	46	16	1	
	11551	+9	+32	39	16	1		11563	-40	+13	45	218	1	
(5) (227) (-6)				2046	31		11561	-43	-19	44	24	2		
9.572 N-2	11561	-80	-20	80	242	1		11561	-40	-21	42	24	1	
	11558	-62	+20	66	242	1		11561	-39	-19	42	36	1	
	11556	-60	-22	62	388	1		11558	-24	+21	36	194	1	
	11560	-56	+22	62	48	1		11565	-21	+32	44	16	1	
	11555	-44	+16	50	61	1		11556	-20	-21	25	339	1	
	11553	-28	+26	44	97	1		11553	+10	+26	34	73	2	
	11553	-28	+27	44	73	1		11553	+11	+24	33	145	2	
	11553	-27	+23	40	121	3		11553	+21	+24	36	485	2	
	11553	-26	+22	39	48	1		11553	+21	+21	34	48	2	
	11553	-22	+22	36	97	3		11551	+44	+36	61	97	3	
	11553	-21	+23	35	194	1		11551	+46	+35	61	12	1	
	11553	-18	+22	34	170	2		11551	+57	+32	69	48	2	
	11551	+5	+36	43	97	3		11564	+48	-20	50	16	1	
	11551	+7	+36	43	291	3		(12) (174) (-6)				3246	40	
	11551	+14	+33	41	16	1		13.571	11570	-67	-24	67	121	1
	11551	+17	+33	43	36	3	N-2	11569	-61	-36	65	121	1	
	11551	+21	+31	43	73	2		11567	-52	+17	58	73	1	
	(7) (214) (-6)				2294	29		11567	-51	+18	57	97	1	
	10.587 N-2	11562	-79	-31	78	679	1		11567	-49	+17	56	32	2
		11562	-78	-34	77	291	1		11562	-45	-34	51	36	2
11562		-75	-33	74	485	1		11562	-41	-34	47	97	2	
11563		-66	+13	70	194	1		11562	-41	-31	46	267	1	
11561		-65	-18	66	97	1		11562	-39	-34	46	36	1	
11558		-47	+19	55	194	1		11562	-37	-33	44	218	1	
11556		-46	-22	48	388	1		11566	-42	+15	47	16	1	
11560		-41	+22	49	24	1		11563	-33	+13	38	133	3	
11555		-29	+16	36	48	1		11563	-32	+14	38	61	1	
11553		-16	+25	35	170	2		11563	-29	+13	35	24	2	
11553		-15	+26	35	61	1		11563	-27	+12	34	194	1	
11553		-14	+24	34	97	3		11561	-30	-23	34	32	3	
11553		-13	+23	32	73	2		11561	-29	-20	33	48	2	
11553		-7	+22	29	145	2		11561	-26	-22	30	97	3	

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U.T.	No.	Δl	φ	ρ	A	s	U.T.	No.	Δl	φ	ρ	A	s
		$^{\circ}$	$^{\circ}$	$^{\circ}$					$^{\circ}$	$^{\circ}$	$^{\circ}$		
	11561	-26	-19	28	36	2		11566	-14	+16	26	24	9
	11561	-25	-20	28	73	3		11566	-12	+16	26	12	1
	11558	-10	+20	27	145	1		11563	-5	+14	22	32	2
	11556	-8	-22	17	315	1		11563	-5	+15	23	24	1
	11565	-8	+32	39	16	1		11563	-4	+14	22	12	3
	11553	+23	+26	40	32	1		11563	-4	+15	23	6	2
	11553	+34	+24	46	485	1		11563	-3	+15	23	12	2
	11551	+49	+36	65	97	1		11563	-2	+13	19	12	4
	11551	+54	+36	68	121	1		11563	0	+12	18	12	1
	(12)	(161)	(-6)		3023	41		11563	+1	+11	16	97	2
14.615	11570	-51	-25	53	97	1		11561	-4	-23	16	121	5
N-2	11569	-49	-37	56	97	1		11561	-4	-21	15	12	4
	11567	-38	+18	46	73	1		11561	-3	-23	16	121	5
	11567	-37	+19	46	73	1		11561	-2	-21	15	24	4
	11567	-35	+18	44	97	1		11561	0	-23	16	24	1
	11562	-30	-34	39	24	1		11561	0	-20	15	6	1
	11562	-27	-34	38	61	1		11561	+2	-20	15	121	6
	11562	-26	-31	35	242	3		11561	+3	-20	15	73	4
	11562	-26	-33	36	24	2		11561	+4	-21	15	121	1
	11562	-25	-34	36	24	1		11561	+4	-23	16	16	2
	11562	-24	-33	35	170	1		11561	+5	-20	15	32	5
	11563	-19	+15	29	48	1		11558	+16	+20	31	97	1
	11563	-19	+14	28	97	3		11556	+16	-23	23	6	1
	11563	-15	+14	25	12	1		11556	+17	-23	24	6	2
	11563	-14	+12	23	194	2		11556	+19	-22	25	194	1
	11561	-17	-23	24	158	3		11565	+19	+33	44	6	1
	11561	-15	-20	20	73	4		11565	+20	+33	44	6	1
	11561	-15	-22	21	73	2		11565	+24	+32	45	6	1
	11561	-14	-20	19	242	3		11553	+61	+23	68	388	1
	11561	-14	-21	19	145	4		(12)	(133)	(-6)		2319	125
	11561	-12	-20	17	73	5							
	11561	-8	-19	16	16	1	16.558	11572	-86	+25	88	48	1
	11558	+3	+20	26	145	1	N-4	11571	-70	+32	75	16	1
	11556	+6	-22	16	267	1		11570	-23	-23	28	24	1
	11553	+46	+24	56	485	1		11569	-23	-35	36	6	1
	(9)	(147)	(-6)		3010	46		11569	-23	-36	37	6	1
15.674	11570	-36	-25	40	32	2		11567	-16	+22	31	12	1
M-3	11569	-36	-38	46	32	1		11567	-12	+21	27	73	3
	11567	-26	+20	37	6	1		11567	-9	+22	28	48	2
	11567	-25	+23	38	6	1		11567	-9	+21	26	16	2
	11567	-24	+23	38	6	1		11568	-13	-34	32	16	2
	11567	-23	+19	35	97	6		11566	-4	+20	25	6	1
	11567	-20	+18	33	48	6		11566	-3	+18	24	36	2
	11568	-25	-36	38	6	1		11562	-4	-33	27	12	1
	11562	-17	-36	35	6	2		11562	-3	-32	26	97	6
	11562	-16	-34	33	6	1		11562	-3	-30	25	73	3
	11562	-16	-33	35	6	1		11562	0	-28	24	145	1
	11562	-16	-36	32	36	8		11562	+1	-32	26	170	1
	11562	-14	-34	26	97	10		11563	+6	+17	24	73	5
	11562	-13	-31	32	145	2		11563	+6	+15	22	24	1
	11562	-13	-35	31	16	6		11563	+8	+17	24	24	3
	11562	-10	-34	30	145	1		11563	+11	+16	24	16	1
	11566	-15	+14	25	6	1		11563	+13	+13	22	109	1
								11561	+7	-20	16	170	3
								11561	+7	-22	18	16	5
								11561	+8	-18	16	16	1

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U. T.	No.	Δl	φ	ρ	A	s	U. T.	No.	Δl	φ	ρ	A	s
		$^{\circ}$	$^{\circ}$	$^{\circ}$					$^{\circ}$	$^{\circ}$	$^{\circ}$		
	11561	+9	-20	17	194	6		11565	+52	+34	63	48	4
	11561	+13	-20	19	48	1		11556	+46	-19	47	339	1
	11561	+16	-18	22	218	3		(15)	(109)	(-5)		3047	63
	11561	+17	-19	23	170	1							
	11561	+19	-17	24	36	1							
	11558	+29	+22	39	97	1	18.796	11574	-53	+36	63	97	1
	11556	+31	-20	34	242	1	N-2	11574	-52	+36	63	121	1
	11565	+31	+34	48	12	1		11573	-46	+13	49	133	3
	11565	+32	+34	49	24	2		11572	-45	+26	54	242	1
	11565	+33	+34	50	16	1		11572	-44	+24	51	97	1
	11565	+34	+33	49	12	1		11578	-26	-14	27	73	1
	11565	+36	+34	52	24	1		11562	+27	-29	36	73	1
	11565	+39	+33	54	24	1		11562	+28	-33	39	121	1
	11565	+41	+34	55	24	1		11577	+31	+36	50	32	1
	11553	+75	+26	78	485	1		11561	+35	-21	37	218	1
	(14)	(122)	(-5)		2878	73		11561	+37	-22	41	121	1
17.549	11574	-70	+35	76	218	1		11561	+39	-21	42	48	1
N-3	11572	-66	+26	70	48	2		11561	+41	-20	43	16	1
	11572	-64	+24	69	97	1		11561	+47	-22	50	291	2
	11573	-64	+13	66	61	2		11563	+36	+16	41	32	1
	11571	-56	+32	64	48	1		11563	+43	+12	46	97	1
	11570	-14	-24	24	12	1		11575	+41	+35	55	48	1
	11570	-8	-23	20	12	1		11575	+42	+36	56	32	2
	11570	-4	-22	17	12	1		11575	+45	+34	57	242	1
	11568	0	-34	30	6	1		11558	+59	+21	64	97	1
	11568	0	-32	26	6	1		11556	+59	-21	60	315	1
	11567	+3	+21	25	48	3		11565	+60	+33	68	145	1
	11562	+9	-31	26	12	1		11565	+60	+32	67	145	1
	11562	+11	-32	28	24	2		11565	+65	+34	71	24	1
	11562	+11	-29	26	97	1		(12)	(92)	(-5)		2860	28
	11562	+13	-28	26	48	3							
	11562	+14	-31	29	145	1	19.562	11581	-85	+17	86	97	1
	11566	+10	+20	26	36	1	N-4	11580	-73	-26	75	32	1
	11566	+11	+18	26	6	2		11574	-46	+33	58	12	1
	11566	+12	+18	26	12	1		11574	-45	+34	58	24	1
	11566	+13	+18	26	12	1		11574	-44	+35	58	48	1
	11566	+20	+18	31	48	3		11572	-43	+25	51	12	2
	11566	+22	+18	32	12	1		11572	-39	+24	48	24	2
	11561	+20	-22	26	24	1		11572	-35	+24	45	218	1
	11561	+21	-19	25	194	1		11573	-36	+12	40	61	3
	11561	+22	-22	26	36	1		11578	-15	-15	17	24	2
	11561	+22	-16	25	24	1		11567	+27	+20	36	12	1
	11561	+23	-20	26	145	2		11566	+34	+19	42	12	1
	11561	+23	-18	26	24	1		11566	+36	+17	43	6	1
	11561	+26	-19	29	48	1		11566	+39	+19	46	6	2
	11561	+27	-18	31	32	2		11562	+38	-28	44	24	5
	11561	+32	-18	34	436	3		11562	+39	-32	46	109	1
	11563	+26	+14	33	145	1		11561	+45	-20	46	170	2
	11575	+26	+38	50	48	2		11561	+46	-21	47	32	3
	11575	+27	+36	49	48	3		11561	+57	-19	58	388	1
	11558	+43	+23	50	73	1		11563	+46	+17	51	12	1
	11565	+45	+36	58	12	2		11563	+53	+13	56	73	1
	11565	+46	+34	58	291	1		11575	+49	+36	62	24	1
	11565	+48	+35	60	36	2		11575	+54	+36	65	194	1
	11565	+50	+34	62	24	1		11558	+69	+23	73	73	1
								11556	+69	-19	70	315	1

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U.T.	No.	Δl	φ	ρ	A	s	U.T.	No.	Δl	φ	ρ	A	s
	11565	+69	+34	76	170	1		11582	+65	-22	66	48	1
	11565	+70	+33	77	121	1		11561	+69	-19	70	194	1
	11565	+75	+33	80	24	1		11561	+85	-19	85	291	1
	(15)	(82)	(-5)		2317	41		11579	+84	-28	84	145	1
20.603	11585	-72	-20	74	24	1		11563	+80	+13	83	97	1
N-3	11581	-67	+17	70	145	2		11575	+85	+36	88	194	1
	11580	-59	-26	61	32	2	(16)	(55)	(-5)		2505	52	
	11584	-58	-23	59	6	1	22.666	11590	-79	+23	81	582	1
	11584	-54	-24	55	32	1	N-2	11585	-47	-20	49	12	1
	11574	-31	+34	48	16	1		11585	-46	-18	48	16	2
	11574	-31	+35	49	24	1		11585	-45	-20	46	16	1
	11574	-27	+34	47	24	1		11581	-36	+17	41	121	1
	11574	-26	+32	45	73	2		11580	-30	-26	36	16	1
	11572	-29	+26	43	16	2		11584	-26	-23	32	12	2
	11572	-25	+24	38	36	3		11588	-8	-26	24	24	2
	11572	-24	+25	38	24	1		11588	-8	-27	24	12	1
	11572	-21	+25	35	36	1		11574	-3	+34	39	145	4
	11572	-20	+26	36	194	1		11574	-1	+34	39	36	6
	11573	-20	+12	26	73	1		11574	-1	+32	36	16	2
	11578	-3	-15	11	6	1		11574	-1	+31	35	12	1
	11562	+51	-32	55	97	2		11574	+1	+33	37	97	1
	11582	+54	-22	55	24	1		11574	+3	+33	38	145	3
	11561	+59	-20	60	194	1		11574	+5	+33	38	32	1
	11561	+70	-20	71	436	1		11572	-1	+27	32	121	4
	11575	+62	+37	71	36	1		11572	+3	+26	31	291	2
	11575	+68	+36	76	194	1		11572	+5	+24	29	36	1
	11563	+65	+13	68	97	1		11572	+6	+26	31	485	1
	11579	+75	-28	77	109	2		11572	+7	+24	31	61	1
	11556	+86	-19	86	339	1		11573	+8	+13	19	61	1
	(15)	(68)	(-5)		2287	33		11589	+9	-20	17	12	1
21.603	11585	-59	-19	58	16	1		11589	+11	-19	18	12	1
N-3	11581	-53	+17	56	145	1		11586	+70	-25	72	145	1
	11580	-46	-26	50	32	1		11582	+75	-23	77	48	1
	11584	-42	-24	45	61	2		11562	+79	-32	79	36	1
	11588	-25	-26	32	32	1	(13)	(41)	(-5)		2602	45	
	11588	-25	-27	34	24	2	23.642	11590	-63	+23	67	291	1
	11574	-18	+34	43	16	2	N-3	11585	-30	-19	34	16	1
	11574	-17	+33	42	48	2		11581	-25	+15	32	61	1
	11574	-16	+34	42	73	4		11581	-24	+16	32	16	2
	11574	-16	+32	39	24	2		11581	-23	+17	32	145	1
	11574	-15	+34	42	73	1		11588	+1	-28	24	12	1
	11574	-13	+32	38	194	4		11588	+3	-27	24	24	1
	11574	-11	+32	36	16	1		11574	+7	+34	40	97	3
	11572	-16	+27	36	32	1		11574	+8	+35	41	73	4
	11572	-15	+26	35	24	2		11574	+12	+34	41	12	2
	11572	-12	+25	33	145	5		11574	+12	+32	38	6	1
	11572	-9	+24	31	24	1		11574	+14	+33	40	36	2
	11572	-8	+26	32	48	4		11574	+16	+33	41	32	1
	11572	-6	+26	32	291	3		11574	+17	+33	41	16	2
	11573	-6	+12	17	61	2		11572	+11	+29	35	6	1
	11578	+8	-14	14	24	2		11572	+11	+27	34	6	1
	11586	+59	-25	61	36	1		11572	+13	+25	33	194	1
	11562	+64	-32	66	97	1		11572	+14	+25	33	97	5

APRIL

U.T.	No.	Δl	φ	ρ	A	s	U.T.	No.	Δl	φ	ρ	A	s
		$^{\circ}$	$^{\circ}$	$^{\circ}$					$^{\circ}$	$^{\circ}$	$^{\circ}$		
	11572	+16	+25	34	24	3	N-1	11590	-19	+23	33	48	1
	11572	+18	+26	35	388	2		11590	-17	+25	33	24	1
	11573	+21	+13	26	16	1		11590	-16	+26	34	97	1
	11591	+55	+25	61	16	1		11590	-11	+25	31	145	1
	(8)	(28)	(-5)		1584	38		11596	-16	-14	19	109	2
25.546	11593	-55	-27	57	24	1		11596	-15	-15	18	36	1
N-3	11593	-53	-26	55	24	1		11596	-14	-14	17	48	1
	11593	-49	-26	53	6	1		11581	+30	+16	36	73	2
	11593	-48	-27	52	6	1		11581	+30	+17	36	48	1
	11590	-44	+24	52	48	1		11581	+30	+20	37	36	1
	11590	-43	+24	51	12	2		11581	+31	+18	37	121	2
	11590	-39	+24	49	145	1		11572	+62	+26	68	73	1
	11590	-38	+23	47	16	1		11572	+64	+25	69	145	1
	11595	-16	+15	26	16	1		11572	+67	+26	71	121	1
	11581	-2	+15	20	12	1		11572	+70	+25	74	291	1
	11581	+2	+15	20	24	3		11588	+65	-25	66	36	2
	11581	+3	+16	21	61	2		11588	+68	-25	68	16	1
	11581	+4	+17	23	12	2		(5)	(336)	(-4)		1483	22
	11572	+35	+25	45	61	1	28.631	11596	-4	-14	11	48	1
	11572	+36	+25	46	48	2	N-1	11596	+1	-15	12	36	1
	11572	+41	+25	50	61	2		11596	+3	-14	12	24	2
	11572	+43	+26	52	291	1		11590	+3	+25	29	121	1
	11572	+44	+27	54	16	1		11581	+46	+16	50	194	4
	11574	+43	+33	55	24	1		11572	+80	+25	83	97	1
	11594	+60	+22	65	6	1		(4)	(322)	(-4)		520	10
	(7)	(3)	(-5)		913	27	29.589	11596	+10	-14	15	16	1
26.625	11590	-35	+23	45	32	1	N-1	11596	+11	-14	15	16	1
N-2	11590	-34	+23	44	32	1		11596	+14	-15	18	24	1
	11590	-32	+22	42	61	3		11596	+15	-14	18	16	1
	11590	-28	+24	41	109	1		11590	+15	+25	32	121	1
	11590	-24	+23	36	121	1		11581	+59	+17	63	218	1
	11590	-23	+23	36	24	1		(3)	(310)	(-4)		411	6
	11596	-29	-16	32	16	1	30.527	11603	-80	+17	80	727	1
	11596	-29	-14	32	24	1	N-4	11600	-75	-21	75	97	5
	11596	-27	-14	30	16	1		11600	-74	-23	74	48	1
	11596	-26	-15	27	48	3		11600	-71	-19	71	73	1
	11581	+15	+18	27	16	1		11600	-70	-18	70	242	2
	11581	+16	+16	26	97	2		11601	-31	-17	34	24	2
	11581	+16	+18	28	36	1		11601	-28	-16	31	16	2
	11581	+17	+17	28	61	3		11596	+25	-14	26	61	3
	11588	+39	-28	44	16	1		11596	+26	-14	27	24	1
	11588	+43	-27	47	24	1		11596	+27	-15	29	73	6
	11572	+51	+25	57	194	1		11596	+28	-13	31	24	4
	11572	+54	+26	60	121	1		11590	+26	+25	39	73	1
	11572	+56	+26	62	242	1		11581	+69	+16	72	73	2
	(5)	(349)	(-5)		1290	26		11581	+71	+16	74	97	2
27.597	11590	-23	+24	35	16	1		(6)	(297)	(-4)		1652	33

Mean for 28 days, $A = 1795$, $r = 123.5$

The mean daily area and the mean relative escaped number, r , are given at the end of the month.

These results are a continuation of those published in the Monthly Weather Review from February 1, 1927 to December 31, 1947.